

The Pathology Company



# Because Frozen Sections are Vitaly Important

Leica CM1860/CM1860 UV – high-throughput clinical  
cryostat with **AgProtect™** (with and without UV Protection)



# Confidence is Vital

## Deliver diagnostic confidence

When you're preparing fresh tissue for a vital diagnosis, you need to know that your cryostat will reliably deliver quality sections. That's why the Leica CM1860 has the precision to consistently cut thin sections and the reliability that means it's ready whenever a patient needs your skills to provide an accurate diagnosis.



# Safety is Vital

## Reduce your exposure to infection and injury

Cryomicrotomy requires handling un-fixed tissue and performing repetitive tasks. That's why the Leica CM1860 helps protect against potential biohazardous exposures and provides ergonomic features that can reduce musculoskeletal disorders (MSD).



### CONSISTENT THICKNESS

Cut consistent, high-quality sections thanks to the precision of the microtome's stepper motor feed-in.

### THE CONTROL YOU NEED

Easily align the block face to the knife edge using the specimen orientation system with zero-position centering.

### READY WHEN NEEDED

A fully encapsulated microtome for maintenance-free reliability means your Leica CM1860 will be ready when urgent sections are needed.

### PROTECTING ALL STAFF

Protect all staff working close to the cryostat; AgProtect nanosilver coating limits bacterial growth on external surfaces and reduces the risk that contact will lead to infection.

### ADDITIONAL OPERATOR SAFETY

Reduce exposure to most bacteria, viruses, and fungi by disinfecting the cryochamber at cold temperatures using safe, highly effective, ozone-free UVC irradiation. (Leica CM1860 UV option)

### WORK COMFORTABLY ALL DAY

Reduce the risk of MSDs and improve operator comfort. The ergonomic design features rounded corners, easy-to-access controls, convenient working height and comfortable handwheel placement and design.



Certification proving the effectiveness of UVC disinfection against a range of microorganisms can be downloaded from our website. The certificates include detailed information on the test procedure and the efficacy of UVC disinfection.

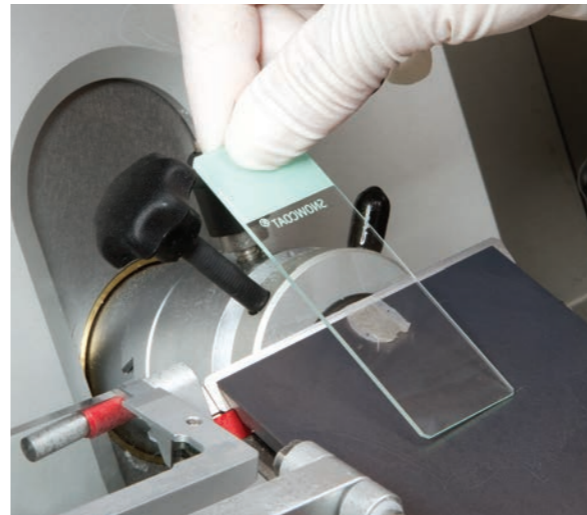
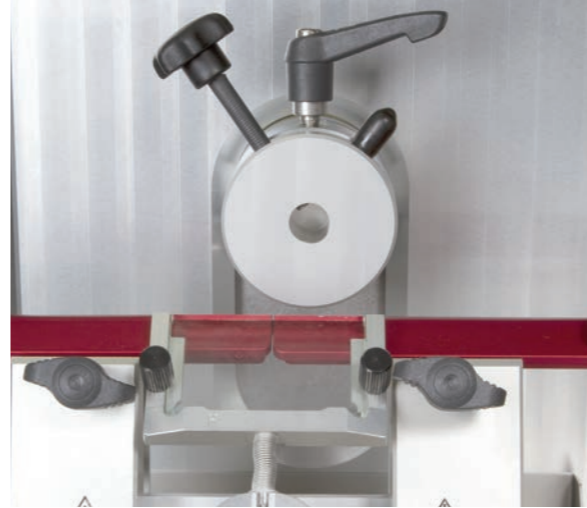
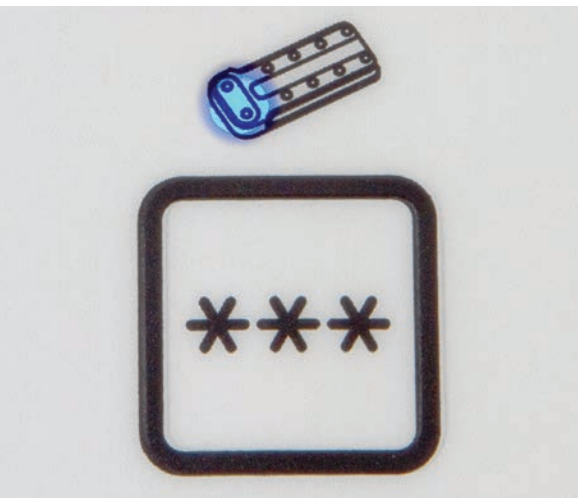




# Efficiency is Vital

## Create a Lean Histology™ laboratory

Increase efficiency with a Leica cryostat and better utilize your existing resources. The Leica CM1860 will help improve the workflow and productivity of any high-throughput clinical laboratory.



### ELIMINATE WASTED TIME

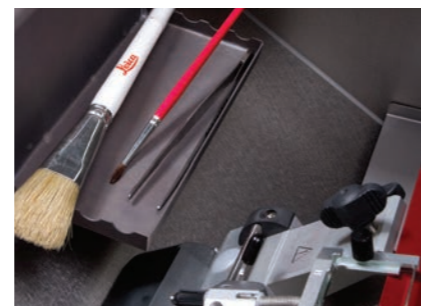
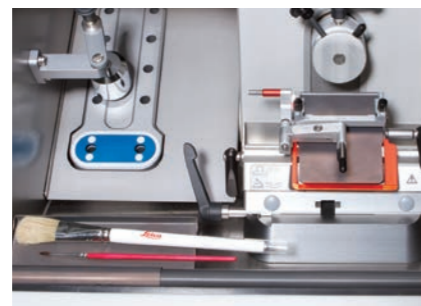
Quickly freeze specimens down to -40 °C with the regular freezing shelf. Get additional cooling with the Peltier element providing up to 17 K difference to the shelf temperature. A cover for the shelf keeps it clean and ready to use whenever it's needed.

### REDUCE MAINTENANCE

Increase productivity with easy-clean flat freezing shelf, highly accessible cryochamber and a removable condensate bottle for quick waste handling.

### WORK SMARTER

With critical items close to hand, operators cut more sections in less time. The interface provides fingertip control while an optional movable cryochamber shelf and ample instrument-top storage mean accessories are instantly accessible.

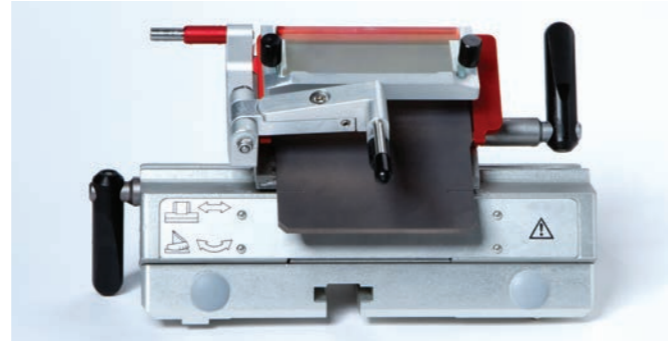




### PREMIUM CE BLADE HOLDER

Easily setup for consistency and safety. The Leica CM1860 premium blade holder makes it easy to safely insert, position and remove blades. Operator comfort is also enhanced by a unique palm rest for brush technique users.

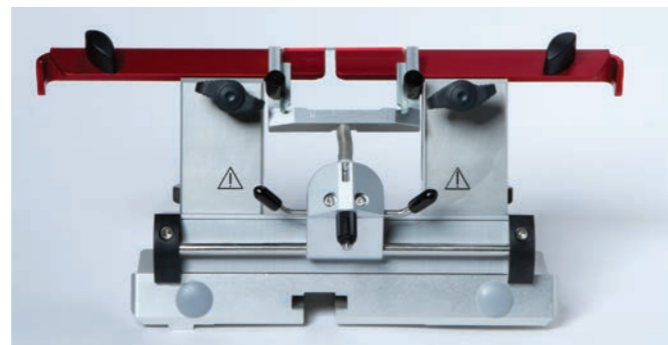
- › High stability
- › Blade ejector and finger guard
- › Palm rest for brush technique
- › Easy lateral adjustment
- › Plastic handles prevent frost bite



### PREMIUM CN KNIFE HOLDER

Consistently cut the hardest specimens. The CM1860 Knife holder CN improves stability, safety and even prevents frost bite so operators can cut more high quality sections with greater safety.

- › High stability
- › Finger guard for increased safety
- › Plastic handles prevent frost bite



### NEW OBJECT PLATE HOLDER

Be ready sooner. The new object plate holder is a convenient way to quickly pre-cool object plates. The flexible two-part design maximizes chamber working space while minimizing mess.

- › Large 13 spot holder
- › Smaller 5 spot holder
- › Easily configure chamber with either or both holders
- › Ideally fit in the space behind the freezing shelf

\*The object plates are compatible with Leica CM1850, CM1510 S, CM1520 and CM3050 S cryostats.



## Technical Specifications

### Microtome

Section thickness selection	1 - 100 µm
Total specimen feed	25 mm
Vertical specimen stroke	59 mm
Maximum specimen size	55 x 55 mm or 50 x 80 mm
Specimen orientation	8° (x, y, z-axis)
Electric coarse feed, slow	600 µm/s
Electric coarse feed, rapid	900 µm/s

### Refrigeration system

Refrigeration system	50 Hz/60 Hz
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### Cryochamber

Temperature setting range	0 °C to -35 °C (+3 K/-3 K)
Cooling time down to -35 °C	max. 6 hours, at 22 °C ambient temperature
Defrost	Automatic hot gas defrost, 1 automatic defrost cycle/24 hours, time-controlled (duration 12 min.)

### Quick-freeze shelf

Maximum	-40 °C (0 K/- 5 K)
Number of freezing stations	8
Defrost	Manual hot gas defrost, time-controlled (duration 12 min.)

### Peltier element

Max. temperature difference	17K, at -35 °C chamber temperature
Number of freezing stations	2
Defrost	In conjunction with the quick-freeze shelf

### Dimensions and weights

Width (w/o handwheel)	600 mm/23.6 in
Width (with handwheel)	730 mm/28.7 in
Depth	730 mm/28.7 in
Height	1140 mm/44.8 in
Weight (incl. microtome, without specimen cooling)	approx. 135 kg/298 lbs

<b>UVC surface disinfection (Leica CM1860 UV only)</b>	30 or 180 minutes, user selectable
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Technical specifications subject to change without prior notice.



**TOTAL CRYOSECTIONING SOLUTIONS**

**Leica ST4020 Linear Stainer**

Quickly and easily stain surgical frozen sections with this small, fast stainer located near or on top of your cryostat.

**Disposable Blades**

Find just the blade you need from Leica Microsystems' diverse range of coated, uncoated, high- and low-profile blades.

**Leica Surgipath Slides**

With many color and adhesive options you're sure to find the ideal slide for your application.

**Embedding Media**

Leica Microsystems can supply a wide range of embedding media including Tissue Freezing Medium, FSC22™ and Cryo-Gel.

**Dr. Peters Cryoembedding System**

Easily achieve proper specimen orientation and perfect embedding with the unique Precision Cryoembedding System.



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